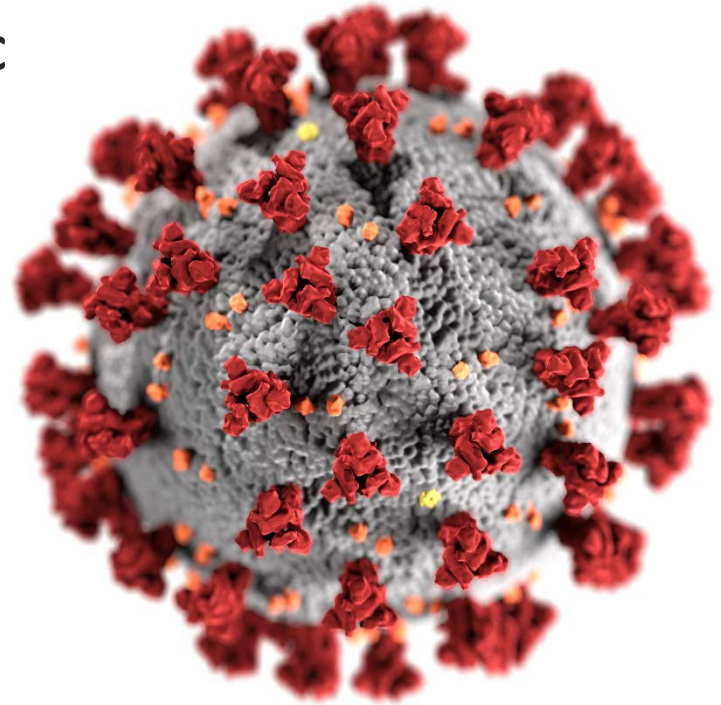


Reporting Results of Point of Care Testing for COVID-19: A New National Healthcare Safety Network Tool for Long-term Care Facilities

Katherine Allen-Bridson RN, BSN, MScPH, CIC
Nurse Consultant

NHSN Training

October 30, 2020



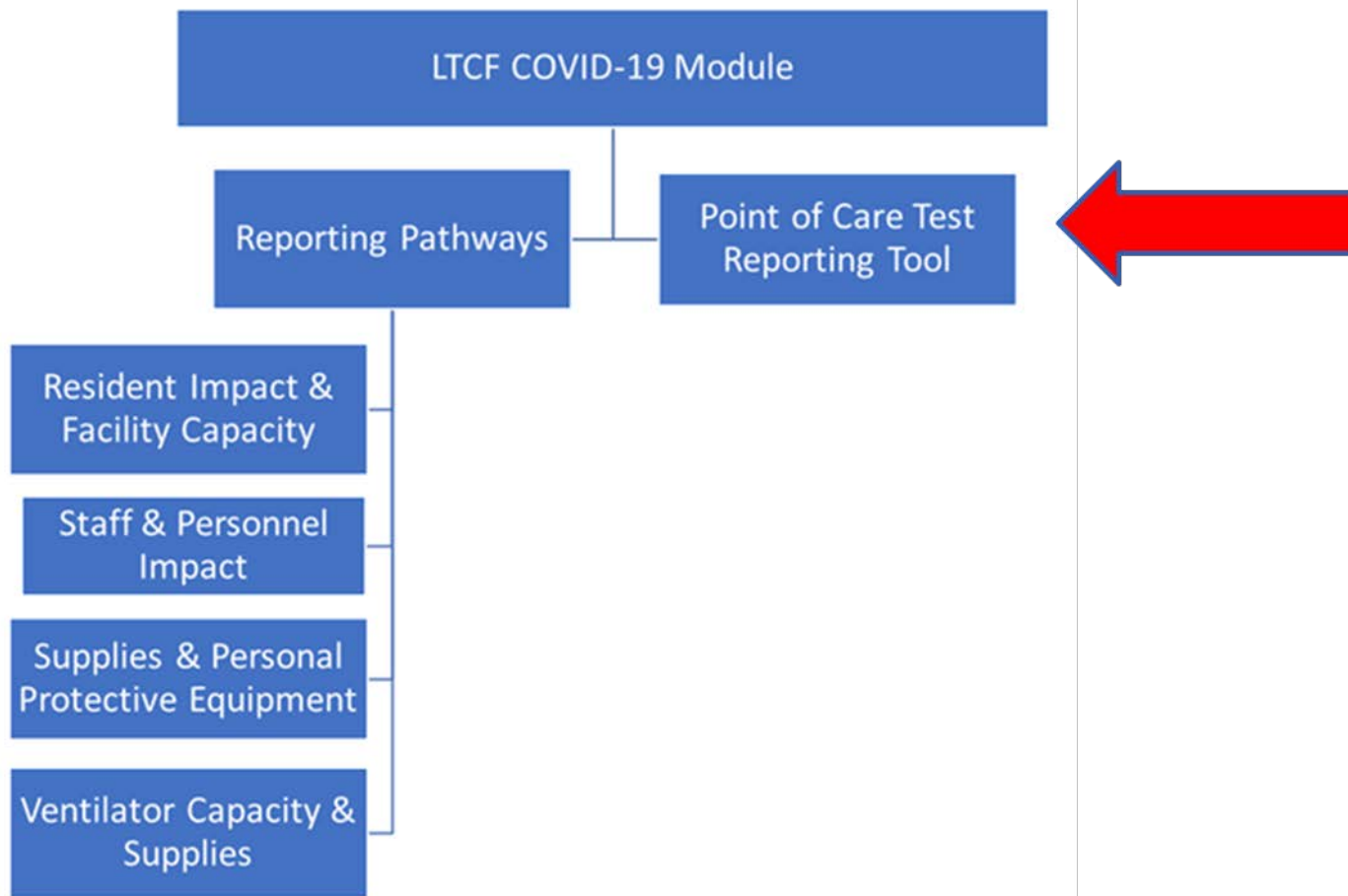
cdc.gov/coronavirus

Agenda

- Overview
 - Coronavirus Aid, Relief, and Economic Security (CARES) Act
 - Data Sharing Through National Healthcare Safety Network
- Data Entry
- Analytics
- Demonstration
- Question and Answer

Please submit any questions via the Q & A box ONLY. Questions submitted to Chat will not be monitored for questions. As time allows, a live Q & A session will follow the presentation.





Forms and Tables of Instructions

<https://www.cdc.gov/nhsn>

The image shows a screenshot of the CDC National Healthcare Safety Network (NHSN) website. The main heading is "National Healthcare Safety Network (NHSN)". Below this, there is a description of the network and a section for the "LTCF COVID-19 Module". An orange arrow points to the "LTCF COVID-19 Module" link. The module section lists various forms and tables of instructions, including "Resident Impact and Facility Capacity", "Staff and Personnel Impact", "Supplies and Personal Protective Equipment", "Ventilator Capacity and Supplies", and "New! Point of Care Testing". Another orange arrow points to the "Table of Instructions (57.145)" link under the "Staff and Personnel Impact" section.

CDC Centers for Disease Control and Prevention
CDC 24/7: Saving Lives, Protecting People™

Search

National Healthcare Safety Network (NHSN)

CDC > NHSN > Materials for Enrolled Facilities > Long-term Care Facilities

NHSN

NHSN Login

About NHSN

LTCF COVID-19 Module

Long-term Care Facilities
Includes Nursing Homes, Skilled Nursing & Assisted Living Facilities

Flu Vaccination R
Healthcare Personnel a

LTCF COVID-19 Module

Resident Impact and Facility Capacity

- COVID-19 Resident Impact and Facility Capacity Pathway Form (57.144)
[PDF - 100 KB] (print-only) - August 27, 2020
Table of Instructions (57.144) [PDF - 350 KB] - August 27, 2020

Staff and Personnel Impact

- COVID-19 Staff and Personnel Impact Pathway Form (57.145) [PDF - 120 KB] (print-only)
Table of Instructions (57.145) [PDF - 250 KB]

Supplies and Personal Protective Equipment

- COVID-19 Supplies and Personal Protective Equipment Pathway Form (57.146) [PDF - 120 KB] (print-only)
Table of Instructions (57.146) [PDF - 300 KB]

Ventilator Capacity and Supplies

- COVID-19 Ventilator Capacity and Supplies Pathway Form (57.147) [PDF - 110 KB] (print-only)
Table of Instructions (57.147) [PDF - 250 KB]

New! Point of Care Testing

- Point of Care Test Reporting Tool (57.155) [PDF - 80 KB] (print-only) - October 16, 2020
Table of Instructions (57.155) [PDF - 200 KB] - October 16, 2020

What is Point of Care Testing?

- The College of American Pathologists (CAP) defines POCT as “testing that is performed near or at the site of a patient with the result leading to a possible change in the care of the patient.”¹
- It is usually performed by non-laboratory trained individuals such as nurses, physicians, nursing assistants, and anesthesia assistants
- These tests generally offer faster turn-around time for results
- They often require less sample volume than tests performed in the laboratory

¹<https://webapps.cap.org/apps/docs/education/OnlineCourseContent/2011/LAP/Resources/Checklists/POC.pdf#:~:text=DEFINITION%20OF%20POINT-OF->

[CARE%20TESTING%20Point%20of%20Care%20Testing,outside%20the%20physical%20facilities%20of%20the%20clinical%20laboratories](https://webapps.cap.org/apps/docs/education/OnlineCourseContent/2011/LAP/Resources/Checklists/POC.pdf#:~:text=DEFINITION%20OF%20POINT-OF-CARE%20TESTING%20Point%20of%20Care%20Testing,outside%20the%20physical%20facilities%20of%20the%20clinical%20laboratories)



Overview

Impetus and Process



Coronavirus Aid, Relief, and Economic Security (CARES) Act

*Public Law 116-136, § 18115(a)*¹

- Requires reporting
 - within 24 hours of results
 - results of each test to “detect SARS-CoV-2 or to diagnosis a possible case of COVID-19” by laboratories*
 - to Secretary of Department of Health and Human Services(DHHS)
- DHHS issued guidance on June 4, 2020 to outline requirements for data submission to DHHS as authorized under the CARES Act²
- “As a guiding principle, data should be sent to state or local public health departments using existing reporting channels (in accordance with state law or policies) **to ensure rapid initiation of case investigations by those departments....**”

¹ <https://www.congress.gov/116/plaws/publ136/PLAW-116publ136.pdf>

² <https://www.hhs.gov/sites/default/files/covid-19-laboratory-data-reporting-guidance.pdf>

HHS Guidance on CARES Act Reporting

The required data elements related to Laboratory Data Reporting to HHS may be reported through the following avenues:

- 1. Submission of laboratory testing data **directly to state and/or local public health departments**, as required by state and/or local law or policy. These entities will then submit de-identified data to the CDC on a daily basis using either Health Level 7 (HL7) messaging or the CDC-provided CSV format.
- 2. Submission of laboratory testing data to state and local public health departments **through a centralized platform (such as the Association of Public Health Laboratories' AIMS platform)** where such data will then be routed to the appropriate state and local authorities and routed to CDC after removal of elements to achieve de-identification according to applicable rules and regulations.

<https://www.hhs.gov/sites/default/files/covid-19-laboratory-data-reporting-guidance.pdf>

HHS Guidance on CARES Act Reporting Cont.

The required data elements related to Laboratory Data Reporting to HHS may be reported through the following avenues:

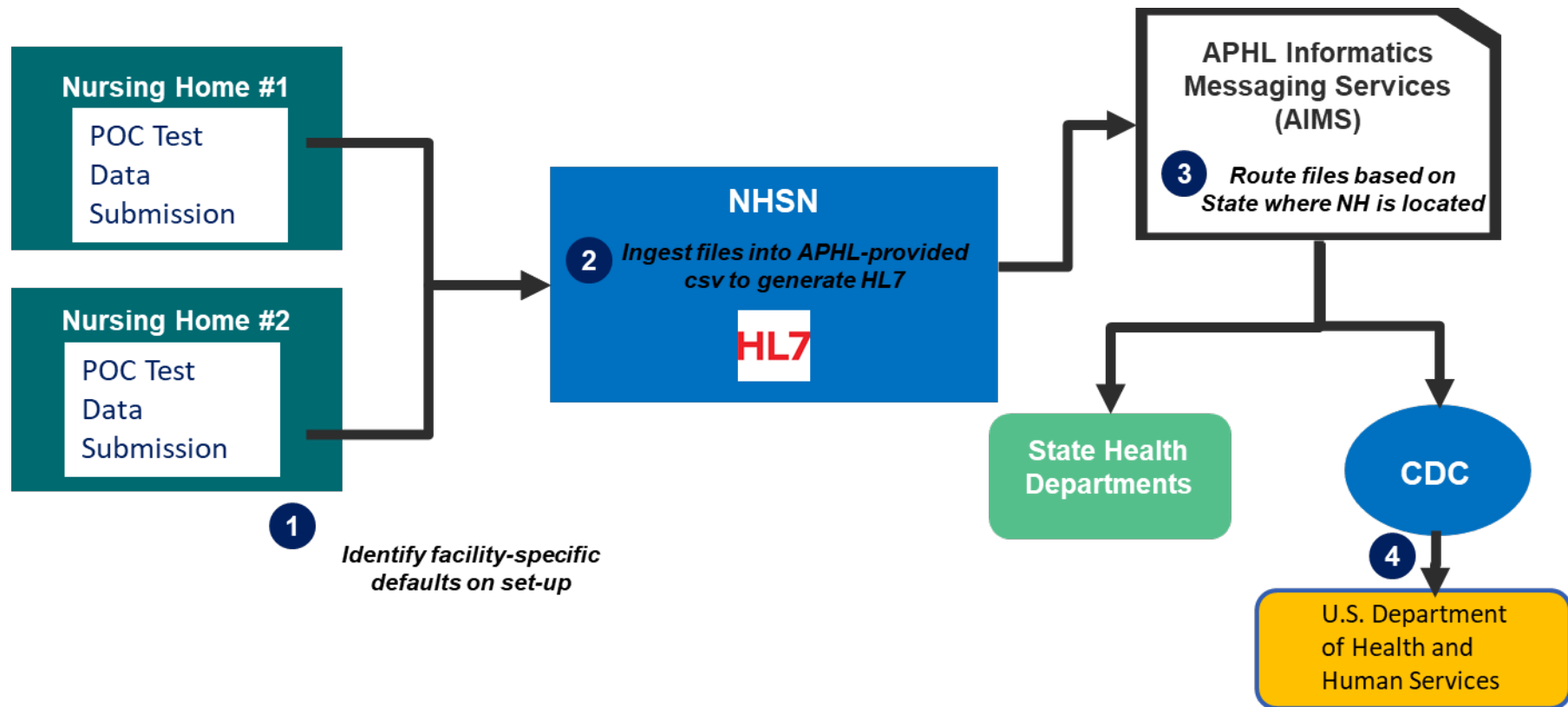
- 3. Submission of laboratory testing data through a state or regional **Health Information Exchange (HIE)** to the appropriate state or local public health department and to the CDC as directed by the state.
- 4. *CMS-certified long-term care facilities shall submit point-of-care SARS-CoV-2 testing data, including antigen testing data, to CDC's National Healthcare Safety Network (NHSN). This requirement to submit data to CDC's NHSN applies only to CMS-certified long-term care facilities. Test data submitted to NHSN will be reported to appropriate state and local health departments using standard electronic laboratory messages. Other types of LTC facilities may voluntarily report testing data in NHSN for self-tracking or to fulfill state or local reporting requirements, if any.*

Why a Reporting Option Through NHSN?

- Creates a single, standardized reporting system that:
 - 1) all ~15,400 nursing homes already use for other COVID-19 reporting;
 - 2) has the capability to share data with state and local health departments;
 - 3) has the capability to share data with HHS and CMS; and
 - 4) avoids the creation of a patchwork of different jurisdictional reporting systems by state health departments

If your state or local health department has already developed a process by which facilities report these data, please contact these public health authorities before changing the reporting process.

Nursing Home POC Test Results Reporting Data Flow



Data Entry



Inclusion of Personally Identifiable Information (PII)

- PII is an integral component of contact tracing and prevention measures at the state and local level
- PII data is secured and encrypted for protection
- POC Testing option therefore collects PII
 - Name (Last name, First name, Middle Initial)
 - Street address
 - Phone number with area code
 - Date of birth
 - Ordering provider address
 - Ordering provider phone number
- NHSN Groups, which are agencies or organizations which a facility has conferred rights to so they may see or access the facility's NHSN data will not be provided access to test results for facility staff members.

Reporting is only available to those with Level 3 security access with Secure Access Management Services (i.e. SAMS-Level 3). This requires a grid card. If you do not have one, please send an email to NHSN@cdc.gov with subject: Enhancing Data Security.

In Recognition of Confidentiality Requirements

- Only NHSN Facility Administrator (FacAd) will automatically be granted rights to STAFF POC data.
- FacAd will need to grant rights to other NHSN Users as needed to perform necessary reporting.

Let's look at how one
grants NHSN rights to an
NHSN User



NHSN - National Healthcare Safety Network (ltcf9411-25-dz6gj:443)

NHSN Home

Alerts

Dashboard ▶

Reporting Plan ▶

Resident ▶

Event ▶

Summary Data ▶

COVID-19 ▶

Vaccination Summary

Import/Export

Surveys ▶

Analysis ▶

Users ▶

Facility ▶



Find User

- Enter search criteria and click Find

User Information

User ID:

First Name:

Middle Name:

Last Name:

Phone Number:

E-mail Address:

Find

Clear

Back

Add

Find

NHSN Home

Alerts

Dashboard ▶

Reporting Plan ▶

Resident ▶

Event ▶

Summary Data ▶

COVID-19 ▶

Vaccination Summary

Import/Export

Surveys ▶

Analysis ▶



Find User

- Enter search criteria and click Find

User Information

User ID:

First Name:

Middle Name:

Last Name: ×

Phone Number:

E-mail Address:

Find

Clear

Back

- Alerts
- Dashboard ▶
- Reporting Plan ▶
- Resident ▶
- Event ▶
- Summary Data ▶
- COVID-19 ▶
- Vaccination Summary
- Import/Export
- Surveys ▶
- Analysis ▶
- Users ▶
- Facility ▶
- Group ▶
- Tools ▶
- Logout



Mandatory fields marked with *

User ID *: KJONES Up to 32 letters and/or numbers, no spaces or :

Prefix:

First Name *: Katrina

Middle Name:

Last Name *: Jones

Title:

User Active: Y - Yes

User Type:

Phone Number *: 111-111-1111

Fax Number:

E-mail Address *: KJONES@CDC.GOV

Address, line 1:

Address, line 2:

Address, line 3:

City:

State:

County:

Zip Code:

Home Phone Number:

Beeper:

User Group/Facility: JOY LTCF (14506)

User Roles: Custom Role(LTCF)



Edit

Effective Rights

Back

Alerts

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Reporting Plan ▶

Resident ▶

Event ▶

Summary Data ▶

COVID-19 ▶

Vaccination Summary

Import/Export

Surveys ▶

Analysis ▶

Users ▶

Facility ▶

Group ▶

Tools ▶

Logout

Mandatory fields marked with *

User ID *: KJONES

Up to 32 letters and/or numbers, no spaces or special characters

Prefix:

First Name *: Katrina

Middle Name:

Last Name *: Jones

Title:

User Active: Y - Yes ▼

User Type: ▼

Phone Number *: 111-111-1111

Fax Number:

E-mail Address *: KJONES@CDC.GOV

Address, line 1:

Address, line 2:

Address, line 3:

City:

State: ▼

County: ▼

Zip Code:

Home Phone Number:

Beeper:

Save

Deactivate

Change Password

Edit Rights

Effective Rights

Back



Edit User Rights

User ID: 2738 (ID 506335)

Facility List:

Fac: Angela LTCF Test Facility

Rights	Long Term Care	
Administrator	<input type="checkbox"/>	
All Rights	<input type="checkbox"/>	
Analyze Data	<input type="checkbox"/>	
Add, Edit, Delete	<input checked="" type="checkbox"/>	
View Data	<input checked="" type="checkbox"/>	
Staff - Add, Edit, Delete	<input type="checkbox"/>	
Staff - View	<input type="checkbox"/>	
Customize Rights	<input type="checkbox"/>	

Ensure you indicate facility preferences here



Burden-sparing NHSN Architecture

- “Single-page application”
- Required data elements limited to those identified in CARES Act and/or needed by state and local health departments
- Drop down list for county based on State
- Options are specific for the test device used
 - Test ordered
 - Specimen source
 - Test result

Burden-sparing NHSN Architecture Cont.

- Auto-population for some data fields
 - Links to previously entered demographics for the tested individual
 - Defaults to facility address for residents
 - Defaults to identified information for
 - Testing device
 - Test Ordered
 - Ordering physician
 - Specimen number
 - Symptomatic?
 - Pregnant?

- NHSN Home
- Alerts
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NHSN Long Term Care Facility Component Home Page

Long Term Care Dashboard

Action Items

- Dashboard
- Daily Entry
- POC Test Result Reporting

9

Missing Events

9

Incomplete Events

77

Missing Summary
Data

9

Incomplete Summary
Data

Assurance of Confidentiality: The voluntarily provided information obtained in this surveillance system that would permit identification of any individual or institution is collected with a guarantee that it will be held in strict confidence, will be used only for the purposes stated, and will not otherwise be disclosed or released without the consent of the individual, or the institution in accordance with Sections 304, 306 and 308(d) of the Public Health Service Act (42 USC 242b, 242k, and 242m(d)).



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NHSN - National Healthcare Safety Network (AWDV-NHSN-WL01:8001)

NHSN Home

[Alerts](#)[Dashboard](#)[Reporting Plan](#)[Resident](#)[Event](#)[Summary Data](#)[COVID-19](#)[Vaccination Summary](#)[Import/Export](#)[Surveys](#)[Analysis](#)[Users](#)[Facility](#)[Group](#)[Tools](#)[Logout](#)

POC Test Result Reporting



Resident/Staff

[Find Resident/Staff...](#)

Type of Individual
Tested *:

Resident

Resident ID *:

First Name *:

Gender *:

Ethnicity:

Middle
Name:

Last
Name *:

Date of
Birth *:

☐ American Indian/Alaska Native

☐ Asian

☐ Race: Black or African American

☐ Native Hawaiian/Other Pacific Islander

☐ White



POC Test Results

[Add Test Result...](#)

Page 0 of 0

No records to view

Test Date

Test Ordered

Test Result

Page 0 of 0

No records to view

[I'm done. Start a New POC Test Result Report ->](#)

NHSN Home

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Surveys ▶

Analysis ▶

Users ▶

Facility ▶

Group ▶

Tools ▶

Logout



POC Test Result Reporting



Resident/Staff

Find Resident/Staff...

Type of Individual Tested *: **Staff/Volunteer/Contractor** ▼

Staff ID *:

First Name *:

Middle Name:

Last Name *:

Gender *: ▼

Date of Birth *:
15

☐ American Indian/Alaska Native

☐ Asian

Race: ☐ Black or African American

☐ Native Hawaiian/Other Pacific Islander

☐ White

Ethnicity: ▼

Home Address of Staff/Volunteer/Contractor

Address, line 1 *:

Address, line 2:

City *:

State *: ▼

County *: ▼

Zip Code *: -

Contact Phone *: Ext:



POC Test Results

Add Test Result...



NHSN - National Healthcare Safety Network (AWDV-NHSN-WL01:8001)

NHSN Home

[Alerts](#)[Dashboard](#)[Reporting Plan](#)[Resident](#)[Event](#)[Summary Data](#)[COVID-19](#)[Vaccination Summary](#)[Import/Export](#)[Surveys](#)[Analysis](#)[Users](#)[Facility](#)[Group](#)[Tools](#)[Logout](#)

POC Test Result Reporting



Resident/Staff

[Find Resident/Staff...](#)[Edit Resident/Staff](#)

Type of Individual
Tested * Resident

Resident ID * 1111

First Name * BUSY

Gender * F - Female

Ethnicity:

Middle
Name:

Date of Birth * 01/01/1943

☐ American Indian or Alaska Native

Race: ☐ Black or African American

☐ White

Alert

CLIA # / CLIA Waiver # is required for reporting to AIMS and without it data will not get routed to jurisdictions. Please update or add your facility's CLIA number in NHSN's facility screen. From the main menu, choose Facility->Facility Info. Enter the ID in the CLIA # / CLIA Waiver # field.

[OK](#)

POC Test Results

[Add Test Result...](#)

CLIA # / CLIA Waiver #:

Page 0 of 0

No records to view

Test Date Test Ordered


Test Result Delete

Page 0 of 0

No records to view

[I'm done. Start a New POC Test Result Report ->](#)

POC Test Result Reporting

**Resident/Staff**


Type of Individual Tested *

Resident ID *

First Name

Gender *


Ethnicity

**POC Test Results**

Test Date

Test O

Add Test Result

**POC Test Result**

Test Date *:

Device Name *: [Choose Default...](#)

Test Ordered *: SARS coronavirus+SARS coronavirus 2 Ag [Presence] in Respiratory specimen by Rapid immunoassay

Specimen Source *:

Test Result *:

Specimen Number *:

Ordering Physician *: [Physicians...](#)

Was person symptomatic? *:

Was person pregnant? *:

[Save](#) [Cancel](#)

POC Test Result Reporting

Physicians



Physicians

Default

Name ▾



[DONALD DUCK](#)

Add Physician



Add Physician

First Name *:

Last Name *:

Work Phone: Ext:

Address, line 1:

Address, line 2:

City:

State: ▾

Zip Code *: Ext:

Comment:



Save

Cancel

I'm done. Start a New POC Test Result Report ->

Phone Number

770-452-3987

Save

Test Result Reporting

Ident/Staff

Type of Individual

Tested *

Resident ID *

First Name

Gender *

Ethnicity

Test Results

Choose Default POC Device



Default POC Device

BinaxNOW COVID-19 Ag Card_Abbott Diagnostics Scarborough, Inc._EUA
Sofia SARS Antigen FIA_Quidel Corporation_EUA
BD Veritor System for Rapid Detection of SARS-CoV-2_Becton, Dickinson and Company (BD)_EUA

Save as default

Cancel

e. Start a New POC Test Result Report ->

What happens if the device my facility is using is not listed?

- Report those results as you have been doing previously
- NHSN is continuously updating the list of test devices for which test results can be reported

Analytics



Analysis

- Two current line list options
 - Resident testing
 - Staff/Volunteer/Contractor testing
- Run and Modify options
- Sortable- default is sort by test result
- Additional analysis options to be added as needs identified
- Always remember to generate datasets before running analysis to ensure that all entered data is included.

Summary



Summary

- NHSN's Point of Care Test Reporting Tool for COVID-19 has been identified by the Department of Health and Human Services as the method by which the data should be reported
- The tool enables facilities to report data which is then shared with state health departments (SHDs) and also with the CDC and U.S. DHHS
- For the few SHDs which have already implemented reporting pathways for this data, NHSN is working with the SHDs to identify messaging
- Data entry into the system has been built to be minimally burdensome; future enhancements are expected
- For questions about the system, please email: NHSN@cdc.gov and include in the subject line: POC Test Reporting Tool

Question and Answer



NHSN@cdc.gov